

Specifications — RGB 440 Architectural Interface

Video

Gain	Unity (0.7V), (0.8V) 15% with 3dB peaking, (0.9V) 30% with 6dB peaking
Bandwidth	300 MHz (-3dB)

Video input

Number/signal type	1 analog RGBHV, RGBS, RGsB
Connectors	(1) 9-pin male for MBC cable or buffer
Nominal level	0.7V p-p for RGB
Minimum/maximum levels	Analog: 0.3V to 1.45V p-p
Impedance	75 ohms or Hi Z, switchable (set to 75 ohms if no local monitor is connected)
Horizontal frequency	15 kHz to 150 kHz (optimum 15 kHz to 62 kHz)
Vertical frequency	30 Hz to 170 Hz
Return loss	<-30dB @ 5 MHz

Video output

Number/signal type	1 analog RGBHV, RGBS, RGsB
Connectors	6 BNC female
Nominal level	0.7V p-p for RGB
Minimum/maximum levels	Analog: 0.7V p-p to 0.9V p-p (internal jumper selectable) w/peaking and 0.7V input
Impedance	75 ohms
Return loss	-30dB @ 5 MHz

Sync

Input type	Autodetect RGBHV, RGBS, RGsB (accepts RGsB but does not strip sync from video)
Output type	RGBHV at all times RGBS at all times RGsB only when input is RGsB
Input level	2V p-p to 5.5V p-p with ± 0.2 VDC offset max.
Output level	4V to 5V p-p, unterminated
Input impedance	10 kohms
Output impedance	75 ohms
Max. propagation delay	50 nS
Max. rise/fall time	2.5 nS
Polarity	Positive or negative

Audio

Gain	Unbalanced output: 0dB; balanced output: +6dB
Frequency response	20 Hz to 20 kHz, ± 0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20kHz at nominal level
S/N	>90dB at rated maximum output (14dBm), balanced
Stereo channel separation	>95dB @ 1 kHz to 20 kHz

Audio input

Number/signal type	1 stereo, unbalanced; 1Vrms (+4dBu), 20 Hz to 20 kHz
Connectors	(1) 3.5 mm stereo jack (2 channel), unbalanced; tip (R), ring (L), sleeve (ground)
Impedance	>10 kohms, unbalanced, DC coupled
Nominal level	-10dBV (316mV)
Maximum level	+8.5dBu at 1%THD+N

Audio output

Number/signal type	1 buffered, stereo (2 channel), balanced or unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1dB channel to channel
Maximum level (600 ohm)	> +14dBm, balanced at stated %THD+N

General

Power	100VAC to 240VAC, 50/60 Hz, 5 watts, external, autoswitchable; to 12 to 24VAC or VDC, 0.5 A power supply. Product requires 0.5 A. (Order the power supply separately, part #70-055-01.)
MBC power jack	9VDC, 0.15 A
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non condensing
Rack mount	No, but it is mountable under a surface with included mounting tabs.
Enclosure type	Metal
Enclosure dimensions	1.0" H x 5.7" W x 4.5" D 2.547 cm H x 14.5 cm W x 11.4 cm D (Width including flanges = 7.0", 17.7 cm) (Depth excludes connectors.)
Product weight	0.8 lbs (0.4 kg)
Shipping weight	2 lbs. (0.9 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings	UL
Compliances	CE, FCC Class A
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *Specifications are subject to change without notice.*

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